

## PS500

Version number: 4.0  
Scodix p/n: DCH-0027-02  
Replaces version of: 10.05.2018 (3)

Revision: 16.09.2018

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name	<b>PS500</b>
Scodix p/n	HIK-0022-01
Registration number (REACH)	not relevant (mixture)

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	UV curable overprint clear polymer for use with Scodix digital UV Presses
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#### 1.3 Details of the supplier of the safety data sheet

Scodix Ltd.  
13 Amal St., Park Afeq  
IL-48092 Rosh Ha'ayin  
Israel

Telephone: +972-3-9033371  
e-mail: [benji.r@scodix.com](mailto:benji.r@scodix.com)

e-mail (competent person)

[benji.r@scodix.com](mailto:benji.r@scodix.com) (Benji Ruhm)

#### 1.4 Emergency telephone number

Emergency information service

This number is only available during the following office hours: Mon - Thu, Sun 09:00 AM - 06:00 PM

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Acute Tox. 4	H312
Skin Irrit. 2	H315
Eye Dam. 1	H318
Skin Sens. 1A	H317
Repr. 2	H361f
Aquatic Chronic 2	H411

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects  
Spillage and fire water can cause pollution of watercourses.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- Signal word danger

- Pictograms

GHS05, GHS07,  
GHS08, GHS09



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### - Hazard statements

H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H361f	Suspected of damaging fertility.
H411	Toxic to aquatic life with long lasting effects.

### - Precautionary statements

P201	Obtain special instructions before use.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P501	Dispose of contents/container to industrial combustion plant.

### - Hazardous ingredients for labelling

2-(2-Ethoxyethoxy)ethyl acrylate, Oxybis(methyl-2,1-ethanediyl) diacrylate, diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, 3-Methyl-1,5-pentanediy diacrylate, amine-multifunctional acrylate based oligomer, Propylidynetrimethanol, ethoxylated, esters with acrylic acid, hexamethylene diacrylate, 2-hydroxy-3-phenoxypropyl acrylate, 2,6-bis(1,1-dimethylethyl)-4-(phenylene-methylene)cyclohexa-2,5-dien-1-one

## 2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS
Oxybis(methyl-2,1-ethanediyl) diacrylate	CAS No 57472-68-1 EC No 260-754-3	30 – 50	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1 / H317
2-(2-Ethoxyethoxy)ethyl acrylate	CAS No 7328-17-8 EC No 230-811-7	15 – 30	Acute Tox. 4 / H302 Acute Tox. 3 / H311 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1A / H317 Aquatic Chronic 2 / H411
amine-multifunctional acrylate based oligomer	CAS No N/A EC No N/A	3.5 – 10.5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Aquatic Chronic 3 / H412

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Name of substance	Identifier		Wt%	Classification acc. to GHS
Oligoamine resin	CAS No EC No	N/A N/A	1.8 – 9	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	CAS No EC No	75980-60-8 278-355-8	3 – 6	Skin Sens. 1B / H317 Repr. 2 / H361f Aquatic Chronic 2 / H411
2-[[[(butylamino)carbonyl]oxy]ethyl acrylate	CAS No	63225-53-6	1.25 – 7.5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319
2-hydroxy-1-(4-(4-(2-hydroxy-2-methylpropionyl)benzyl)phenyl)-2-methylpropan-1-one	CAS No EC No	474510-57-1 444-860-9	1 – 3	STOT RE 2 / H373 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410
2-hydroxy-3-phenoxypropyl acrylate	CAS No	16969-10-1	2 – 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317
3-Methyl-1,5-pentanediy diacrylate	CAS No EC No	64194-22-5 264-727-7	1.25 – 4.5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1A / H317 Aquatic Chronic 3 / H412
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	CAS No EC No	28961-43-5 500-066-5	0.7 – 2.25	Eye Irrit. 2 / H319 Skin Sens. 1 / H317
Glycerol, Propoxylated esters with acrylic acid	CAS No EC No	52408-84-1 500-114-5	0.177 – 0.6	Eye Irrit. 2 / H319 Skin Sens. 1 / H317
hexamethylene diacrylate	CAS No EC No	13048-33-4 235-921-9	0.02 – 0.5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317
2,6-bis(1,1-dimethylethyl)-4-(phenylene-methylene)cyclohexa-2,5-dien-1-one	CAS No EC No	7078-98-0 429-460-4	0.02 – 0.12	Skin Sens. 1 / H317 Aquatic Chronic 4 / H413

For full text of abbreviations: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air. Get medical advice/attention.

#### Following skin contact

Take off immediately all contaminated clothing. Get medical advice/attention. Wash with plenty of soap and water.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Get medical advice/attention.

#### Following ingestion

Do NOT induce vomiting. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Rinse mouth with water (only if the person is conscious).

### 4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed: See section 11: Toxicological information.

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**4.3 Indication of any immediate medical attention and special treatment needed**

This information is not available

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media  
Water spray, BC-powder, Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media  
Water jet

**5.2 Special hazards arising from the substance or mixture**

Hazardous combustion products  
Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Irritating and toxic fumes

**5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear protective clothing for protection against heat and flame.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel  
Remove persons to safety. Avoid breathing dust/fume/gas/mist/vapors/spray. Provide sufficient ventilation.

For emergency responders  
Wear breathing apparatus if exposed to vapors/dust/spray/gases. Keep away from sources of ignition - No smoking.

**6.2 Environmental precautions**

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

**6.3 Methods and material for containment and cleaning up**

Advices on how to contain a spill  
Covering of drains

Advices on how to clean up a spill  
Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques  
Use of adsorbent materials.

Other information relating to spills and releases  
Place in appropriate containers for disposal. Ventilate affected area.

**6.4 Reference to other sections**

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Recommendations**

Avoid contact with skin and eyes. Do not breathe mist/vapors/spray. Keep away from sources of ignition – No smoking.

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

**Advice on general occupational hygiene**

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feeding stuffs.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed and in a well-ventilated place. Store at temperatures not exceeding 35 °C. Protect from sunlight.

- Packaging compatibilities

Only packaging which are approved (e.g. acc. to ADR) may be used.

**7.3 Specific end use(s)**

N/A

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

Occupational exposure limit values (Workplace Exposure Limits)

There is no TLV for this product (according to ACGIH)

There is no WEL for this product (according to EH40/2005)

**8.2 Exposure controls**

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

Wear appropriate long-sleeved clothing to minimize skin contact.

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use.

- Type of material

NBR: acrylonitrile-butadiene rubber

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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#### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state	liquid
Color	clear - light yellow
Odor	characteristic

#### Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	>100 °C
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Explosive limits	not determined
Vapor pressure	not determined
Density	1.08 g/cm <sup>3</sup> at 25 °C
Vapor density	this information is not available
Solubility(ies)	Soluble in ketones (acetone). Insoluble in water and isopropanol

#### Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	not determined

#### Viscosity

- Dynamic viscosity	20 – 50 mPa s at 25 °C
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Explosive properties	none
Oxidizing properties	none

**9.2 Other information** there is no additional information  
 There is no additional information.

### SECTION 10: Stability and reactivity

**10.1 Reactivity**

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

If heated:

Exothermic polymerization

If exposed to light:

Exothermic polymerization

**10.2 Chemical stability**

See below "Conditions to avoid".

**10.3 Possibility of hazardous reactions**

No known hazardous reactions.

**10.4 Conditions to avoid**

Keep away from heat. UV-radiation/sunlight.

**10.5 Incompatible materials**

Oxidizers, Reducing agents, Radical-forming initiators, Peroxides, Alkalis

**10.6 Hazardous decomposition products**

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

### SECTION 11: Toxicological information

**11.1 Information on toxicological effects**

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**Classification according to GHS (1272/2008/EC, CLP)**

Acute toxicity

Harmful in contact with skin.

GHS of the United Nations, annex 4:

- Acute toxicity estimate (ATE)

Dermal 1,553 mg/kg

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Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
2-(2-Ethoxyethoxy)ethyl acrylate	7328-17-8	oral	1,860 mg/kg
2-(2-Ethoxyethoxy)ethyl acrylate	7328-17-8	dermal	≥400 mg/kg

Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
2-(2-Ethoxyethoxy)ethyl acrylate	7328-17-8	oral	LD50	1,860 mg/kg	rat
2-(2-Ethoxyethoxy)ethyl acrylate	7328-17-8	dermal	LD50	≥400 – ≤2,000 mg/kg	rat

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

May cause an allergic skin reaction.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### Reproductive toxicity

Suspected of damaging fertility.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
2-(2-Ethoxyethoxy)ethyl acrylate	7328-17-8	LC50	>2.5 mg/l	fish	96 h

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Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
2-(2-Ethoxyethoxy)ethyl acrylate	7328-17-8	EC50	90 mg/l	aquatic invertebrates	48 h
2-(2-Ethoxyethoxy)ethyl acrylate	7328-17-8	ErC50	<10 mg/l	algae	72 h

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
2-(2-Ethoxyethoxy)ethyl acrylate	7328-17-8	EC50	770 mg/l	microorganisms	3 h

**12.2 Persistence and degradability**

Data are not available.

**12.3 Bioaccumulative potential**

Data are not available.

**12.4 Mobility in soil**

Data are not available.

**12.5 Results of PBT and vPvB assessment**

Data are not available.

**12.6 Other adverse effects**

Endocrine disrupting potential

None of the ingredients are listed.

**SECTION 13: Disposal considerations**
**13.1 Waste treatment methods**

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packaging

It is a dangerous waste; only packaging which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

**Remarks**

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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### SECTION 14: Transport information

Allowed shipping temperatures are -20°C to 60°C

<b>14.1 UN number</b>	3082
<b>14.2 UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name (hazardous ingredients)	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, 2-(2-Ethoxyethoxy)ethyl acrylate
<b>14.3 Transport hazard class(es)</b>	
Class	9 (environmentally hazardous)
<b>14.4 Packing group</b>	III (substance presenting low danger)
<b>14.5 Environmental hazards</b>	hazardous to the aquatic environment
Environmentally hazardous substance (aquatic environment)	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, 2-(2-Ethoxyethoxy)ethyl acrylate
<b>14.6 Special precautions for user</b>	
	Provisions for dangerous goods (ADR) should be complied within the premises.
<b>14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	
	The cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

##### Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class	9
Classification code	M6
Packing group	III
Danger label(s)	9, fish and tree
 	
Environmental hazards	YES (hazardous to the aquatic environment)
Special provisions (SP)	274, 335, 375, 601
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Tunnel restriction code (TRC)	-
Hazard identification No	90
Emergency Action Code	3Z
<b>International Maritime Dangerous Goods Code (IMDG)</b>	
UN number	3082

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Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class	9
Marine pollutant	YES (hazardous to the aquatic environment)
Packing group	III
Danger label(s)	9, fish and tree
	
Special provisions (SP)	274, 335, 969
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-A, S-F
Stowage category	A
<b>International Civil Aviation Organization (ICAO-IATA/DGR)</b>	
UN number	3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Class	9
Environmental hazards	YES (hazardous to the aquatic environment)
Packing group	III
Danger label(s)	9, fish and tree
	
Special provisions (SP)	A97, A158, A197
Excepted quantities (EQ)	E1
Limited quantities (LQ)	30 kg

#### SECTION 15: Regulatory information

##### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

There is no additional information.

##### **15.2 Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.

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### SECTION 16: Other information

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In-land Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure

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<b>Abbr.</b>	<b>Descriptions of used abbreviations</b>
vPvB	Very Persistent and very Bioaccumulative

**Key literature references and sources for data**

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

**Classification procedure**

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**List of relevant phrases (code and full text as stated in chapter 2 and 3)**

<b>Code</b>	<b>Text</b>
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

**Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.